

IN THE CLAIMS:

Please cancel claims 1-28 without prejudice and accept new claims 29-59 as follows:

29. (New) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
a bus adapted to couple at least one of video and audio signals from each of a plurality of input devices, wherein said bus comprises a video bus and an audio bus;
at least one display device, houseable in said assembly and operatively coupled to said bus, adapted to reproduce the video signals; and
at least one wireless transmitter operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit a plurality of audio programs to a plurality of wireless headphone sets.

30. (New) The entertainment unit according to claim 29, wherein the wireless signals are at least one of radio frequency and infrared signals.

31. (New) The entertainment unit according to claim 29, wherein the plurality of input devices comprise at least one of a television tuner, a video cassette player (VCP), a compact disk (CD) player, a digital video disk (DVD) player, an AM/FM radio, and a video game player.

32. (New) The entertainment unit according to claim 29, wherein the plurality of input devices comprises an external audio/video signal processor adapted to input at

least one of the audio signals and the video signals from an external source.

33. (New) The entertainment unit according to claim 32, wherein the external source is a portable media device.

34. (New) The entertainment unit according to claim 29, further comprising signal processing facilities adapted to perform at least one of signal processing and signal conversion, with respect to at least one of the audio signals and the video signals.

35. (New) The entertainment unit according to claim 29, wherein said at least one display device is mounted in said entertainment unit in one of a non-fixed configuration and a fixed configuration.

36. (New) The entertainment unit according to claim 29, wherein said at least one display device employs one of a liquid crystal display (LCD), light emitting diodes (LEDs), and a gas plasma.

37. (New) The entertainment unit according to claim 29, wherein said at least one display device employs touch screen technology.

38. (New) The entertainment unit according to claim 29, wherein said at least one display device includes one of picture-in-picture and split screen capability.

39. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter comprises at least one multiplexor adapted to select a specific input device whose audio output is to be wirelessly transmitted to a given one of the plurality of wireless headphone sets.

40. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter is adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel.

41. (New) The entertainment unit according to claim 40, wherein the left audio channel and the right audio channel correspond to different frequencies.

42. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter is adapted to wirelessly transmit the plurality of audio programs to each of the plurality of wireless headphone sets as a left audio channel and a right audio channel, each of the channels having a different frequency for each of the plurality of wireless headphone sets.

43. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter comprises an optical transmitting device and at least one of said plurality of wireless headphone sets comprises a photosensitive device.

44. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter and at least one of said plurality of wireless headphone sets comprises an antenna.

45. (New) The entertainment unit according to claim 29, wherein at least one of said plurality of wireless headphone sets comprises a digital-to-analog converter.

46. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter is adapted to transmit the plurality of audio programs based on Code-Division Multiple Access (CDMA) technology.

47. (New) The entertainment unit according to claim 46, wherein each of the plurality of wireless headphone sets comprises a selector for selecting one of the plurality of audio programs for audio reproduction.

48. (New) The entertainment unit according to claim 29, wherein said at least one wireless transmitter is capable of simultaneously transmitting the plurality of audio programs at different respective frequencies.

49. (New) The entertainment unit according to claim 48, wherein said plurality of wireless headphone sets are capable of receiving on a plurality of channels the plurality of audio programs transmitted at the different respective frequencies.

50. (New) The entertainment unit according to claim 49, wherein each of said plurality of wireless headphone sets includes a multiplexer for selecting one of the plurality of channels corresponding to one of the plurality of audio programs.

51. (New) The entertainment unit according to claim 29, further comprising at least one other display device operatively coupled to said bus.

52. (New) The entertainment unit according to claim 51, wherein the at least one other display device is capable of displaying a first video program from one of said plurality of input devices at the same time the at least one display device displays a second video program from another one of said plurality of input devices.

53. (New) The entertainment unit according to claim 51, wherein:
the at least one other display device includes at least one other wireless transmitter operatively coupled to said audio bus; and
the at least one other wireless transmitter is capable of transmitting a first audio program from one of said plurality of input devices at the same time the at least one wireless transmitter transmits a second audio program from another one of said plurality of input devices.

54. (New) The entertainment unit according to claim 53, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

55. (New) The entertainment unit according to claim 51, wherein the at least one other display device is positioned remote from the assembly housing.

56. (New) The entertainment unit according to claim 29, further comprising at least one other wireless transmitter operatively coupled to said audio bus, wherein the at least one other wireless transmitter is capable of transmitting a first audio program from one of said plurality of input devices at the same time the at least one wireless transmitter transmits a second audio program from another one of said plurality of input devices.

57. (New) The entertainment unit according to claim 56, wherein the first audio program is transmitted on a first frequency and the second audio program is transmitted on a second frequency.

58. (New) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
a video bus adapted to couple video signals from at least some of a plurality of input devices;
an audio bus adapted to couple audio signals from at least some of the plurality of input devices;
at least one display device, houseable in said assembly and operatively coupled to said video bus, adapted to reproduce the video signals; and

a wireless transmitter operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit a plurality of audio programs from at least some of the plurality of input devices to a plurality of wireless headphone sets.

59. (New) An entertainment unit for a vehicle, comprising:
an assembly housing disposed in an interior of the vehicle;
an audio bus adapted to couple audio signals from at least two input devices;
and
a wireless transmitter operatively coupled to said audio bus, adapted to wirelessly and simultaneously transmit the audio signals from the at least two input devices to at least two wireless headphone sets, so that each wireless headphone set receives an audio signal from a different one of the at least two input devices.